

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Permittee Name: Washoe County Department of Regional Parks and Open Space, 2601 Plumas Street, Reno, Nevada, 89509

Permit Number: NEV99010

General: The Washoe County Department of Parks and Open Space utilizes tertiary treated, denitrified and disinfected effluent from the Reno-Stead Water Reclamation Facility (RSWRF #NV0020168) for supplemental spray irrigation at the **18-hole Sierra Sage Golf Course**. The golf course reservoir stores approximately 7.4 million gallons of water and will supply treated effluent for spray irrigation of approximately 95 acres of Kentucky Bluegrass turf, with drip irrigation of various trees and shrubs. The current irrigation system was installed in 1997/1998.

Description of the Location of the Discharge: The Sierra Sage Golf Course is located at 6355 Silver Lake Road in Stead, Washoe County, Nevada, 89506. Township 20 North, Range 19 East, Section 6. Latitude 39° 37' 49" North, Longitude 119° 53' 29" West.

Receiving Water Characteristics: Groundwater in the vicinity of the golf course is approximately 40 to 60 feet below land surface and is currently being used for irrigation of the golf course. Two groundwater monitoring wells were installed at the course in early December, 1999. The "South Well" is located upgradient of the irrigation pond, along the access road near the #3 fairway. The "North Well" is located downgradient of the storage pond, north of the 16th hole. The regional groundwater flow direction is eastward toward the Silver Lake Playa. There are no water supply wells in the reuse area.

Flow: The 30-day average flow is 1.40 MGD.

Procedures for Public Comment: The Notice of the Division's intent to issue a permit authorizing the facility to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit, will be published in the **Reno Gazette-Journal**. The notice will also be mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing, or by FAX for a period of 30 days following the date of publication of the public notice. The comment period may be extended by the Administrator.

A public hearing on the proposed determination may be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons. The request must be filed within the comment period and must have indicate the interest of the person filing the request and the reasons why a hearing may be warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Effluent Limitations: As noted in Table I.1 below, the RSWRF supplies the golf course with tertiary treated, denitrified (ave. 5-8 mg/L N) filtered, and disinfected effluent. The Total Coliform requirement is 2.2 cfu or mpn/100 ml for the 30-day average ; 23 cfu or mpn/100 ml Total Coliform for the Daily Max.. In accordance with NAC 445A.277, a buffer zone and control of public access are not required with this quality of effluent.

TABLE I.1: Discharge Limitations

<u>PARAMETERS</u>	<u>EFFLUENT DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	30 Day Ave.	Daily Max.	Measurement Frequency	Sample Type
Flow: Million Gallons per Month ² : MGM	1.40 MGD M & R MGM	M & R	Continuous Monthly	Flow meter Calculate
Total Coliform: ¹	2.2 cfu or mpn/100 ml	23 cfu or mpn/100 ml	Weekly	Discrete
Annual Application Volume ³ (AF)	Monitor and Report Acre Feet per Year per the EMP (350 af/yr)		Monthly	Composite

1. Sample results to be obtained from NV0020168 and reported by permittee.

2. Monthly maximum based upon highest usage month determined from consumptive use balance + 10% allowance and in accordance with the Effluent Management Plan.

3. To be submitted with the 4th Quarter DMR.

CFU = colony forming units; MPN = Most Probable Number, ml = milliter

Groundwater monitoring in “North Well” and “South Well” is required according to the schedule included in Table I.2 below. The wells shall be conspicuously labeled, capped to prevent migration of surface contaminants to the groundwater, and locked to restrict access.

Table I.2: Groundwater Monitoring

<u>PARAMETERS</u>	<u>GROUNDWATER LIMITATIONS</u>	<u>MONITORING REQUIREMENTS</u>	
		Measurement Frequency	Sample Type
Depth to Groundwater	Monitor and Report	Quarterly	Discrete
Groundwater Elevation	Monitor and Report	Quarterly	Discrete
Total Nitrogen as N	10 mg/L	Quarterly	Discrete
Nitrate as N	Monitor & Report See permit condition I.A.7.	Quarterly	Discrete
Total Dissolved Solids	Monitor and Report	Quarterly	Discrete
Chloride	Monitor and Report	Quarterly	Discrete

Schedule of Compliance: The Permittee shall implement and comply with the provisions of the following schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the schedule of compliance.

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.

Rationale for Permit Requirements: Monitoring is required to assess the management of treated effluent (reuse) water usage, and to protect the local groundwater quality. Total Coliform is required to ensure the quality of reuse water being applied on the golf course, and for protection of human health and the environment.

Proposed Determination: The Division has made the determination to reissue the permit for a five-year period as proposed.

Prepared by: Icyl C Mulligan,
July 2005

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